

ABSTRACT OF THE DISCLOSURE

5 A resorbable interbody fusion device for use in
spinal fixation is disclosed. The device is composed of
25-100% bioresorbable or resorbable material. The
interbody fusion device of the invention can be in any
convenient form, such as a wedge, screw or cage.
Preferably, the resorbable device of the invention is in
the shape of a tapered wedge or cone, which further
10 desirably incorporates structural features such as
serrations or threads better to anchor the device in the
adjoining vertebrae. The preferred device further
comprises a plurality of peripheral voids and more
desirably a central void space therein, which may
15 desirably be filled with a grafting material for
facilitating bony development and/or spinal fusion, such
as an autologous grafting material. As the preferred
material from which the resorbable interbody fusion device
is manufactured is most likely to be a polymer that can
20 produce acidic products upon hydrolytic degradation, the
device preferably further includes a neutralization
compound, or buffer, in sufficiently high concentration to
decrease the rate of pH change as the device degrades, in
order to prevent sterile abscess formation caused by the
25 accumulation of unbuffered acidic products in the area of
the implant.

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